



Product Evaluation

DR860 | 0617

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: DR-860

Effective Date: June 1, 2017

Re-evaluation Date: June 2021

Product Name: Clad 2-1/4 Ultimate Wood Multi Slide Doors, Impact Resistant

Manufacturer: Marvin Windows and Doors
P.O. Box 100
Highway 11 West
Warroad, MN 56763
218-386-4021

General Description:

System	Description	Label Rating	Design Pressure Rating
1a	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG55 180.76 x 96.5 Missile Level D	+55/-65 psf
1b	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG55 265.42 x 96.5 Missile Level D	+55/-65 psf
1c	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG55 350.07 x 96.5 Missile Level D	+55/-65 psf
1d	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG55 434.73 x 96.5 Missile Level D	+55/-65 psf
2	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG50 180.76 x 120.5 Missile Level D	+50/-55 psf
3	Clad 2-1/4 Ultimate Wood Multi Slide Door Pocket IZ3	LC-PG55 142.35 x 96.5 Missile Level D	+55/-65 psf
4	Clad 2-1/4 Ultimate Wood Multi Slide Door Pocket IZ3	LC-PG55 142.35 x 120.5 Missile Level D	+50/-56 psf
5	Clad 2-1/4 Ultimate Wood Multi Slide Door Stacked IZ3	LC-PG55 133.57 x 120.5 Missile Level D	+55/-65 psf

Product Dimensions:

System	Overall Door Size (Including Panel Pockets)	Primary Panel Size	Pocket Panel Size
1a	180-3/4" x 96-1/2"	47-1/16" x 92-1/2"	N/A
1b	265-1/2" x 96-1/2"	47-1/16" x 92-1/2"	N/A
1c	350-1/16" x 96-1/2"	47-1/16" x 92-1/2"	N/A
1d	434-3/4" x 96-1/2"	47-1/16" x 92-1/2"	N/A
2	180-3/4" x 120-1/2"	47-1/16" x 116-1/2"	N/A
3	142-3/8" x 96-1/2"	47-1/16" x 92-1/2"	48-5/16" x 92-1/2"
4	142-3/8" x 120-1/2"	47-1/16" x 116-1/2"	48-5/16" x 116-1/2"
5	133-1/2" x 120-1/2"	47-1/16" x 116-1/2"	N/A

Product Identification (Certification Label on Door):

System		
1a, 1b, 1c, 1d	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	Ult Multi-Slide Dr Stacked IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E-1996-12 Missile Level D
2, 5	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	Ult Multi-Slide Dr Stacked IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-13a, ASTM E-1996-14a Missile Level D
3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	Ult Multi-Slide Dr Pocket IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E-1996-12 Missile Level D

Product Identification (Certification Label on Door) - Continued:

System		
4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Marvin Windows and Doors
	Product Name	Ult Multi-Slide Dr Pocket IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-13a, ASTM E-1996-14a Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1a, 1b, 1c, 1d, 2, 3, 4, 5	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified are acceptable with the limitations specified in this report.

Installation:

Systems 1a, 1b, 1c, 1d: The assembly must be secured to minimum Southern Yellow Pine dimension lumber. The assembly is secured to the wall framing through the frame. The frame head and side jambs are secured to the wall framing with minimum No. 8 x 3" screws. Two rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. The lock strike plate is secured to the wall framing with four No. 8 x 2-1/2" screws. The stationary brackets (1.238" x 0.969" x 0.125" aluminum) are secured to the wall framing with No. 8 x 2-1/2" screws. Two screws are required for each bracket. The frame sill is secured to the wall framing with minimum No. 8 x 1-3/4" screws. Four rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 2: The assembly must be secured to minimum Southern Yellow Pine dimension lumber. The assembly is secured to the wall framing through the frame. The frame head is secured to the wall framing with minimum No. 8 x 3" screws. Two rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. The frame side jambs are secured to the wall framing with minimum No. 8 x 3" screws. One row of fasteners is required. The fasteners are located approximately 6" from each corner and 20" on center. One fastener is required at the top and the bottom of each side jamb through the wood filler. The stationary brackets (1.238" x 0.969" x 0.125" aluminum) are secured to the wall framing with No. 8 x 2-1/2" screws. Two screws are required for each bracket. The frame sill is secured to the wall framing with minimum No. 8 x 1-3/4" screws. Four rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Systems 3: The assembly must be secured to minimum Southern Yellow Pine dimension lumber. The assembly is secured to the wall framing through the frame. The frame head and pocket jamb are secured to the wall framing with minimum No. 8 x 3" screws. Two rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. The locking jamb is secured to the wall framing with minimum No. 8 x 3" screws. One row of fasteners is required. The fasteners are located approximately 6" from each corner and 20" on center. In addition, one screw is located at the top and bottom of each side jamb through the wood filler. The pocket interlock is secured to the wall framing with minimum No. 8 x 3" screws. Two rows of fasteners are required. The fasteners are located approximately 6" from each corner and 12" on center. The lock strike plate is secured to the wall framing with four No. 8 x 2-1/2" screws. The frame sill is secured to the wall framing with minimum No. 8 x 1-3/4" screws. Four rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 5: The assembly must be secured to minimum Southern Yellow Pine dimension lumber. The assembly is secured to the wall framing through the frame. The frame head and side jambs are secured to the wall framing with minimum No. 8 x 3" screws. Two rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. The lock strike plate is secured to the wall framing with four No. 8 x 2-1/2" screws. The lock strike plate is secured to the wall framing with four No. 8 x 2-1/2" screws. The stationary brackets (1.238" x 0.969" x 0.125" aluminum) are secured to the wall framing with No. 8 x 2-1/2" screws. Two screws are required for each bracket. The frame sill is secured to the wall framing with minimum No. 8 x 1-3/4" screws. Four rows of fasteners are required. The fasteners are located approximately 6" from each corner and 20" on center. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.